# Increasing the complexity of computational protein modeling methodologies for functional applications in biology

by

## Kyle Barlow

### DISSERTATION

Submitted in partial satisfaction of the requirements for the degree of

## DOCTOR OF PHILOSOPHY

in

Biological and Medical Informatics

in the

#### **GRADUATE DIVISION**

of the

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

Approved:		6. 16la		Chair
		VAT	7	
	6		11.	
			/	sh.
***************************************			+	
			Commi	ittee in Charge